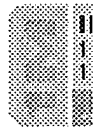


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**1 Monitoring the state of health of VRLA batteries through ohmic measurements**

 Waters, A.R.; Bullock, K.R.; Bose, C.S.C.;  
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**2 Payload state of health monitoring design for next generation satellite constellations**

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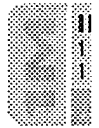
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Vettiger, P.; Benedict, M.E.; Bona, G.L.; Buchmann, P.; Cahoon, N.; Daetwyle, Dietrich, H.P.; Moser, A.; Seitz, H.K.; Voegeli, O.; Webb, D.J.; Wolf, P.; Semiconductor Laser Conference, 1990. Conference Digest. 12th IEEE International, Sept. 9-14, 1990  
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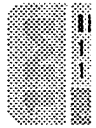
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**31 The “Green light” lies. How to maximize the service life of a battery fleet by utilizing a battery maintenance program**

*Buchmann, I.;*

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Lightwave Technology, Journal of , Volume: 3 , Issue: 4 , Aug 1985

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**2 Single-chip 622-Mb/s SDH/SONET framer, digital cross-connect and add/drop multiplexer solution**
*Baechtold, P.H.; Beakes, M.P.; Buchmann, P.; Clauberg, R.; Ewen, J.F.; Gilsdi, J.F.; Hauviller, P.; Herkersdorf, A.; Le Garrec, J.-C.; Lemppenau, W.; Parker, Pearson, D.J.; Pereira, J.M.; Plassat, D.; reynolds, S.K.; Schindler, H.R.; Steir, A.; Webb, D.J.; Widmer, A.X.;*

Solid-State Circuits, IEEE Journal of , Volume: 36 , Issue: 1 , Jan. 2001

Pages:74 - 80

[\[Abstract\]](#) [\[PDF Full-Text \(140 KB\)\]](#) **IEEE JNL**
**3 Design methodology for a large communication chip***Clauberg, R.; Buchmann, P.; Herkersdorf, A.; Webb, D.J.;*

Design &amp; Test of Computers, IEEE , Volume: 17 , Issue: 3 , July-Sept. 2000

Pages:86 - 94

[\[Abstract\]](#) [\[PDF Full-Text \(104 KB\)\]](#) **IEEE JNL**
**4 R tatable sh rtwave curtain antenna perable at very high wind sp***Bruger, P.; Buchmann, B.; Kurrer, K.-E.; Ozimek, C.;*

Broadcasting, IEEE Transactions on , Volume: 42 , Issue: 1 , March 1996

Pages:50 - 54

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**5 Passive self-aligned low-cost packaging of semiconductor laser array on Si motherboard**

Hunziker, W.; Vogt, W.; Melchior, H.; Buchmann, P.; Vettiger, P.;  
Photonics Technology Letters, IEEE , Volume: 7 , Issue: 11 , Nov. 1995  
Pages:1324 - 1326

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**6 A high-density, four-channel, OEIC transceiver module utilizing planar processed optical waveguides and flip-chip, solder-bump technology**

Jackson, K.P.; Flint, E.B.; Cina, M.F.; Lacey, D.; Kwark, Y.; Trehwella, J.M.;  
Caulfield, T.; Buchmann, P.; Harder, Ch.; Vettiger, P.;  
Lightwave Technology, Journal of , Volume: 12 , Issue: 7 , July 1994  
Pages:1185 - 1191

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**7 Lithography with high depth of focus by an ion projection system**

Buchmann, L.-M.; Schnakenberg, U.; Torkler, M.; Loschner, H.; Stengl, G.; tr.  
C.; Fallmann, W.; Stangl, G.; Cekan, E.;  
Microelectromechanical Systems, Journal of , Volume: 1 , Issue: 3 , Sept. 199  
Pages:116 - 120

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**8 50 mW CW-operated single-mode surface-emitting AlGaAs lasers with 45° total reflection mirrors**

Gfeller, F.R.; Buchmann, P.; Datwyler, K.; Reithmaier, J.P.; Vettiger, P.; Webb,  
D.J.;  
Photonics Technology Letters, IEEE , Volume: 4 , Issue: 7 , July 1992  
Pages:698 - 700

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**9 Full-wafer technology-A new approach to large-scale laser fabrication and integration**

Vettiger, P.; Benedict, M.K.; Bona, G.-L.; Buchmann, P.; Cahoon, E.C.; Datwy  
K.; Dietrich, H.-P.; Moser, A.; Seitz, H.K.; Voegeli, O.; Webb, D.J.; Wolf, P.;  
Quantum Electronics, IEEE Journal of , Volume: 27 , Issue: 6 , June 1991  
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**10 Very high-power (425 mW) AlGaAs SQW-GRINSCH ridge laser with frequency-doubled output (41 mW at 428 nm)**

Jaekel, H.; Bona, G.-L.; Buchmann, P.; Meier, H.P.; Vettiger, P.; Kozlovsky, I  
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Quantum Electronics, IEEE Journal of , Volume: 27 , Issue: 6 , June 1991  
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**11 Beam properties of AlGaAs power lasers with high-quality etched mirrors**

Bona, G.L.; Buchmann, P.; Clauberg, R.; Jaeckel, H.; Vettiger, P.; Voegeli, O.; Webb, D.J.;

Photonics Technology Letters, IEEE , Volume: 3 , Issue: 5 , May 1991  
Pages:412 - 414

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**12 High-speed characterization of a monolithically integrated GaAs-Al quantum-well laser-detector**

Jackson, K.P.; Harder, C.; Buchmann, P.; Datwyler, K.;

Photonics Technology Letters, IEEE , Volume: 2 , Issue: 11 , Nov. 1990  
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**13 Ridge formation for AlGaAs GRINSCH lasers by Cl<sub>2</sub> reactive ion etch**

Jost, M.; Bona, G.L.; Buchmann, P.; Sasso, G.; Vettiger, P.; Webb, D.;

Photonics Technology Letters, IEEE , Volume: 2 , Issue: 10 , Oct. 1990  
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**14 Low threshold current GaAs/AlGaAs GRIN-SCH lasers grown by molecular beam epitaxy on Si<sub>3</sub>N<sub>4</sub> masked substrates**

Meier, H.P.; Van Gieson, E.; Walter, W.; Harder, C.; Buchmann, P.; Webb, D.; Moser, A.;

Electronics Letters , Volume: 24 , Issue: 18 , 1 Sept. 1988  
Pages:1123 - 1125

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**15 Design comparison and control of medium voltage STATCOM with a twin converter topology**

Ponnaluri, S.; Steinke, J.K.; Steimer, P.; Reichert, S.; Buchmann, B.;

Power Electronics Specialists Conference, 2004. PESC 04. 2004 IEEE 35th Annual , Volume: 4 , 20-25 June 2004  
Pages:2546 - 2552 Vol.4

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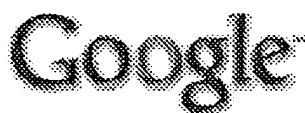


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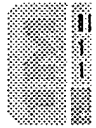
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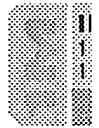
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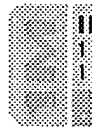
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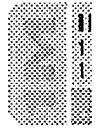
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#### 1 Fuzzy logic-based state-of-health determination of lead acid batteries *Singh, P.; Reisner, D.;*

 Telecommunications Energy Conference, 2002. INTELEC. 24th Annual International, 29 Sept.-3 Oct. 2002  
Pages:583 - 590

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#### 2 Artificial intelligence reads battery state-of-health in three minutes *Buchmann, I.;*

 Applications and Advances, 2001. The Sixteenth Annual Battery Conference on 12 Jan. 2001  
Pages:263 - 265

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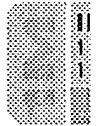
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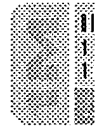
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#### 1 Analysis and interpretation of conductance measurements used to assess the state-of-health of valve regulated lead acid batteries

*Feder, D.O.; Hlavac, M.J.;*

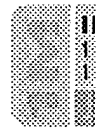
Telecommunications Energy Conference, 1994. INTELEC '94., 16th International ; 30 Oct.-3 Nov. 1994

Pages:282 - 291

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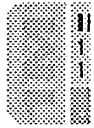

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**1 The detection of the state of health of lead-acid batteries**
*Spath, V.; Jossen, A.; Doring, H.; Garcke, J.;*

Telecommunications Energy Conference, 1997. INTELEC 97., 19th International, 19-23 Oct. 1997

Pages:681 - 686

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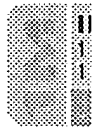
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Singh, P.; Reisner, D.;

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*Nagl, L.; Schmitz, R.; Warren, S.; Hildreth, T.S.; Erickson, H.; Andresen, D.;*  
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**2 Battery state of health monitoring, combining conductance technology with other measurement parameters for real-time battery performance analysis**

*Cox, D.C.; Perez-Kite, R.;*  
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